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Nitrogen News is a summary of recent publications, news and reports related to the cycling, effects and management of nitrogen. Prepared by Mary O'Brien and Jana Compton. Contact Jana Compton with any questions (Compton.jana@epa.gov)

Please note: Most of these links are available to EPA staff through library access – not all links will be available to folks outside EPA, depending on your access to specific journals and websites.

Special Issues	1
Articles	1
News	17
Web Pages.....	20

Special Issues

Estimation of nitrous oxide emission from ecosystems and its mitigation technologies
Edited by Surinder Saggar.

Agriculture Ecosystems & Environment, 136(3-4, Sp. Iss. SI): 189-366, March 15, 2010.
<http://www.sciencedirect.com/science/journal/01678809>

Perspectives on the modern nitrogen cycle

Ecological Applications, 20(1): 3-109, 2010. ISSN 1051-0761.
<http://www.esajournals.org/toc/ecap/20/1>

Impacts of sulphur and nitrogen deposition in western Canada

J. Aherne and D.P. Shaw (Guest Editors).
Journal of Limnology, 69(Suppl. 1), 2010.
http://www.jlimnol.it/JL_69_supl1/JL_69_supl1.htm

Featured collection on riparian ecosystems and buffers

[Introduced by] Mayer, Paul M., Albert H. Todd, Judith A. Okay, and Kathleen A. Dwire
Journal of the American Water Resources Association, 46(2), April 2010.
<http://www3.interscience.wiley.com/journal/118544603/home>

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Simulation of N2O fluxes from Irish arable soils: effect of climate change and management
Biology and Fertility of Soils, 46(3): 247-260, 2010. ISSN 0178-2762.
<http://dx.doi.org/10.1007/s00374-009-0424-5>

Bernoux, Martial, Giacomo Branca, Aure Carro, Leslie Lipper, Garry Smith, and Louis Bockel.
Ex-ante greenhouse gas balance of agriculture and forestry development programs

Scientia Agricola, 67(1): 31-40, 2010. ISSN 0103-9016.
<http://dx.doi.org/10.1590/S0103-90162010000100005>

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Science of the Total Environment, 408(7): 1471-1484, March 1, 2010. ISSN 0048-9697.
<http://dx.doi.org/10.1016/j.scitotenv.2009.11.047>

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A call to investigate drivers of soil organic matter retention vs. mineralization in a high CO₂ world

Soil Biology & Biochemistry, 42(4): 665-668, April 2010. ISSN 0038-0717.
<http://dx.doi.org/10.1016/j.soilbio.2010.01.002>

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Soil NO₃-leaching during growth of three grass-white-clover mixtures with mineral N applications

Agriculture Ecosystems & Environment, 136(1-2): 111-115, 2010. ISSN 0167-8809.
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Anthropogenic impacts recorded in recent sediments from Otisco Lake, New York, USA

Journal of Paleolimnology, 43(3): 449-462, 2010. ISSN 0921-2728.
<http://dx.doi.org/10.1007/s10933-009-9342-7>

Brin, L. D., I. Valiela, D. Goehringer, and B. Howes.

Nitrogen interception and export by experimental salt marsh plots exposed to chronic nutrient addition

Marine Ecology-Progress Series, 400(3): 17, 2010. ISSN 0171-8630.
<http://dx.doi.org/10.3354/meps08460>

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Modeling the role of macroalgae in a shallow sub-estuary of Narragansett Bay, RI (USA)

Ecological Modelling, 221(7): 1065-1079, 2010. ISSN 0304-3800.
<http://dx.doi.org/10.1016/j.ecolmodel.2009.11.002>

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Plant and Soil, 330(1-2): 407-421, May 2010. ISSN 0032-079X.
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Aquatic Microbial Ecology, 58(3): 261-271, 2010. ISSN 0948-3055.
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Longitudinal and seasonal variation of stream N uptake in an urbanizing watershed: effect of organic matter, stream size, transient storage and debris dams
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Applied and Environmental Microbiology, 76(6): 1813-1821, 2010. ISSN 0099-2240.

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Interesting times for marine N₂O

Science, 327(5971): 1339-1340, March 12, 2010. ISSN 1095-9203.

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